

7037



MISSION COVERAGE STATISTICS

KH-4 MISSION 1048-2

27 SEPTEMBER - 2 OCTOBER 1968

TCS-24676/68
OCTOBER 1968
COPY 33
12 PAGES

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INTRODUCTION

This publication provides preliminary coverage statistics, Greenwich Mean Time of passes, correlation of photographic coverage with WAC chart areas, coverage plots, and preliminary data for Mission 1048-2, dated 27 September 1968 - 2 October 1968 (GMT).

Plot sheets are arranged by geographic areas as indicated by the index tabs. Coverage of the Eurasian land mass is divided into days to eliminate illegible overprinting.

Plots for the forward and aft cameras are portrayed as stereoscopic and/or monoscopic passes. Stereo passes will be shown with the forward-looking camera frame numbers inside the pass outline and the corresponding aft-looking camera frame numbers outside the pass outline. In the event of monoscopic coverage, only the frame numbers of the operative camera will appear. The relative location of photographs falling between the numbered frames may be approximated by interpolation.

All frames are indicated on the plot sheets, regardless of water coverage, total cloud cover, or a complete lack of imagery.

TABLE OF CONTENTS

	Page	
Preliminary Coverage Statistics	2	25X6
Greenwich Mean Time of Passes	3	

PRELIMINARY COVERAGE STATISTICS

Mission Number: 1048-2

Launch Date/Time (GMT): 18 September 1968/2132

Photo Dates (GMT): 27-30 September 1968, 1, 2 October 1968

Recovery Date/Time (GMT): 2 October 1968/2305

Operational Photo Passes: 33

Operational Altitude Limits: 98-123 nautical miles

Photo Scale Range: 1:297,620 - 1:373,920

Operational Ground Coverage (Fwd and Aft):

- a. Linear Nautical Miles: 40,120
- b. Square Nautical Miles: 5,616,800

Frames:

- a. Operational

Fwd-Looking 1,059
Aft-Looking 2,953

- b. Stellar 205

- c. Index 205

Operational Imagery Footage (Fwd and Aft): 9,937 ft

NO FOREIGN DISSEM

GREENWICH MEAN TIME

These times are derived from preliminary data and cannot be verified at this time. They are carried to the nearest whole minute.

MISSION 1048-2

PASS	DATE	CAM ON		CAM OFF	
		HR	MIN	HR	MIN
135D	27 September 68	08	35	08	36
137D	27 September 68	11	39	11	40
147D	28 September 68	02	31	02	32
148D (Part 1)	28 September 68	04	00	04	03
148D (Part 2)	28 September 68	04	07	04	09
149D	28 September 68	05	39	05	41
150D	28 September 68	07	06	07	09
151D (Part 1)	28 September 68	08	35	08	36
151D (Part 2)	28 September 68	08	39	08	40
152D	28 September 68	10	13	10	15
163D (Part 1)	29 September 68	02	36	02	37
163D (Part 2)	29 September 68	02	41	02	42
164D (Part 1)	29 September 68	04	11	04	12
164D (Part 2)	29 September 68	04	14	04	17
165D (Part 1)	29 September 68	05	41	05	42
165D (Part 2)	29 September 68	05	44	05	45
166D	29 September 68	07	11	07	14
167D	29 September 68	08	39	08	42
168D	29 September 68	10	14	10	15
169D	29 September 68	11	49	11	50
180D	30 September 68	04	17	04	21
181D (Part 1)	30 September 68	05	46	05	48
181D (Part 2)	30 September 68	05	50	05	52
182D	30 September 68	07	14	07	16
183D	30 September 68	08	43	08	45
184D	30 September 68	10	18	10	20
194D	1 October 68	01	18	01	20
195D	1 October 68	02	48	02	52
196D (Part 1)	1 October 68	04	17	04	19
196D (Part 2)	1 October 68	04	20	04	23
197D	1 October 68	05	52	05	55
198D	1 October 68	07	16	07	24
199D (Part 1)	1 October 68	08	46	08	49
199D (Part 2)	1 October 68	08	54	08	56
200D	1 October 68	10	20	10	23
211D (Part 1)	2 October 68	02	51	02	55
211D (Part 2)	2 October 68	03	03	03	04
212D (Part 1)	2 October 68	04	18	04	20
212D (Part 2)	2 October 68	04	24	04	31
213D	2 October 68	05	51	05	59
214D	2 October 68	07	19	07	27
215D (Part 1)	2 October 68	08	51	08	54
215D (Part 2)	2 October 68	08	57	08	59
216D	2 October 68	10	22	10	26

Next 11 Page(s) In Document Exempt

PRELIMINARY MISSION DATA

1. Mission: 1048-2

2. Anomalies: An unresolved anomaly caused the forward looking camera to cease operation on frame 70 of pass D181. As a result, stereo coverage is not available for passes D182 through D216. The stellar/index unit operation functions with the forward looking camera thus no additional S/I coverage was obtained after the failure.

3. Vehicle Attitude: Appears normal throughout the mission.

4. Image Quality:

a. Main Cameras:

The best image quality of the aft camera record is good and comparable to that of the better KH-4A missions. However, the good quality is not consistent and quality differences are detectable throughout the mission and within individual frames. The imagery provided by the forward camera is also variable. The quality is not as good as that provided by the aft camera.

b. Terrain Camera:

The terrain camera operated through pass D181 and provided good imagery throughout.

c. Stellar Camera:

The stellar camera operated through pass D181 and the star images appear adequate to provide vehicle attitude data.

5. Special Tests: No tests were accomplished during this portion of the mission. The main camera records were processed using dual gamma chemistry.

6. Approximately 30 percent of the entire mission is obscured by clouds.

